

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Ari HOTTINEN

Group Art Unit: Unassigned

Application No.: New Application

Examiner: Unassigned

Filed: October 22, 2003

Attorney Dkt. No.: 60091-00238

For: METHOD AND CONTROLLER FOR CONTROLLING COMMUNICATION
RESOURCES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

October 22, 2003

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the information item(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each item(s) is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the item(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date or the date of filing a CPA, OR (b) before the mailing date of a first Office Action on the merits in the present application, or (c) accompanies a Request for Continued Examination. No certification or fee is required.

☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.

☐ a. I hereby certify that each item of information contained in this

Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☐ c. A check in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p). Please charge any fee deficiency or credit any overpayment to Counsel's Deposit Account No. 50-2222 as needed to ensure consideration of the disclosed information.

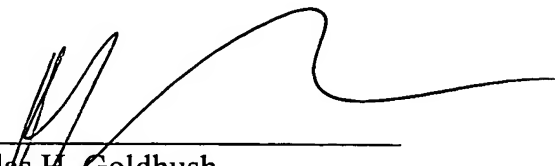
☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Applicant(s) hereby petition(s) that the Information Disclosure Statement be considered. Attached is our check in the amount of \$130.00 in payment of the petition fee under 37 CFR §1.17(i)(1). Please charge any fee deficiency or credit any overpayment to Counsel's Deposit Account No. 50-2222 as needed to ensure consideration of the disclosed information.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in any communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

In the event that there are any fees due with respect to the filing of this paper, please charge Counsel's Deposit Account No. 50-2222.

Respectfully submitted,



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Enclosures: PTO-1449 Form; 3 References

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

60091-00238

SERIAL NO.

New Application

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

Ari HOTTINEN

FILING DATE

October 22, 2003

GROUP

Unassigned

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NO. | DATE | NAME | CLASS | SUB- CLASS | FILING DATE |
|---------------------|----|-----------------|----------|-----------------|-------|---------------|----------------|
| | AA | 6,185,258 B1 | 02/06/01 | Alamouti et al. | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
| | AE | | | | | | |
| | AF | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NO. | DATE | COUNTRY | CLASS | SUB- CLASS | <u>TRANSLATION</u> YES NO PART. | | |
|--|----|-----------------|------|---------|-------|---------------|------------------------------------|--|--|
| | AG | | | | | | | | |
| | AH | | | | | | | | |
| | AI | | | | | | | | |
| | AJ | | | | | | | | |
| | AK | | | | | | | | |

OTHER REFERENCES *(Including Author, Title, Date, Pertinent Pages, Etc.)*

| | | | | | | | | | |
|----------|----|--|--|--|-----------------|--|--|--|--|
| | AL | "Complex Space-Time Block Codes for Four Tx Antennas," Olav Tirkkonen and Ari Hottinen, Nokia Research Center, Finland, © 2000 IEEE | | | | | | | |
| | AM | "Minimal Non-Orthogonality Rate 1 Space-Time Block Code for 3+ Tx Antennas," Olav Tirkkonen, Adrian Boariu, Ari Hottinen, IEEE 6 th Int. Symp. On Spread-Spectrum Tech. & Appl., NJIT, New Jersey, USA, Sept. 6-8, 2000 | | | | | | | |
| | AN | | | | | | | | |
| EXAMINER | | | | | DATE CONSIDERED | | | | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.